NIH/ TAH/NOUS

From the INTERNATIONAL SEARCHING AUTHORITY

To: WILLIAM D. NOONAN KLARQUIST SPARKMAN, LLP

ONE WORLD TRADE CENTER, SUITE 1600 121 SW SALMON STREET PORTLAND, OREGON 97204	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION						
	(PCT Rule 44.1)						
	Date of Mailing (day/month/year) 16 NOV 2005						
Applicant's or agent's file reference 4239-64851	FOR FURTHER ACTION See paragraphs 1 and 4 below						
International application No. PCT/US03/36874	International filing date (day/month/year) 18 November 2003 (18.11.2003)						
Applicant THE GOVERNMENT OF THE UNITED STATES AS REPR	ESENTED BY THE SECRETARY OF THE DEPARTMENT OF						
	earch report has been established and is transmitted herewith.						
Filing of amendments and statement under Article I The applicant is entitled, if he so wishes, to amend the							
international search report.							
Where? Directly to the International Bureau of WI 1211 Geneva 20. Switzerland. Facsimile N	Where? Directly to the International Bureau of WIPO, 34, chemin des Colombelles ETED FOR: 1/16/06 2/16/0						
For more detailed instructions, see the notes on th							
2. The applicant is hereby notified that no international se Article 17(2)(a) to that effect is transmitted herewith.	earch report will be estail@@Kid that the declaration under SCAN						
3. With regard to the protest against payment of (an) ad	Iditional fee(s) under Rule 40.2, the applicant is notified that:						
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.							
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.							
4. Reminders							
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.							
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.							
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.							
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits. Office by Office, see the PCT Applicant's Guide. Volume II. National Chapters and the WIPO Internet site.							
Name and mailing address of the ISA/US	Authorized officer						
Mail Stop PCT, Attn: ISA/ US Commissioner for Patents P.O. Box 1450	Timothy M. Brown F. Roberts for						

Alexandria, Virginia 22313- 1450
Facsimile No. (703) 305-3230
Form PCT/ISA/220 (April 2002)

Telephone No. (571) 272-1600

(See notes on accompanying sheet)



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4239-64851	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No. PCT/US03/36874	International filing date (day/month/year) 18 November 2003 (18.11.2003) (Earliest) Priority Date (day/month/year)						
Applicant THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.							
language in which it was filed,	unless otherwise indicated under th	out on the basis of the international application in the is item.					
Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.							
furnished subsequently to this Authority in computer readable form.							
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
2. Certain claims were found	unsearchable (See Box I).						
Unity of invention is lacking With regard to the title,	g (See Box II).						
the text is approved as subm	itted by the applicant.						
the text has been established	by this Authority to read as follows						
5. With regard to the abstract,							
the text is approved as subm	itted by the applicant.						
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. The figure of the drawings to be published with the abstract is Figure No.							
as suggested by the applican	t.	None of the figures					
because the applicant failed t	to suggest a figure.						
because this figure better cha	aracterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36874

A. CLASSIFICATION OF SUB	IFCT MATTER						
,							
US CL : 424/198.1; 536/24							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (al	position mustam followed						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/198.1; 536/24.1							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PUBMED, MEDLINE, BIOSIS, ELSEVIER BIOBASE, DERWENT BIOTECHNOLOGY ABSTRACTS							
C. DOCUMENTS CONSIDERE							
	nt, with indication, where a			Relevant to claim No.			
A FLOMERFELT et al. S dimensional thymus org 391-401.	FLOMERFELT et al. Spatial, a gene expressed in thymic stromal cells, depends on three- dimensional thymus organization for its expression. Genes Immun. 2000, Vol. 1, pages 391-401.						
and -Positive Adolescen	PHAM et al. Assessment of Thymic Activity in Human Immunodeficiency Virus-Negative and -Positive Adolescents by Real-Time PCR Quantitation of T-Cell Receptor Rearrangement Excision Circles. Clin. Diag. Lab. Immun. March 2003, Vol. 10, No. 2, pages 3232-328.						
A MCCUNE. Thymic fund	MCCUNE. Thymic function in HIV-1 disease. Immun. 1997, Vol. 9, pages 397-404.						
A NAPOLITANO et al. E. and in SCID-hu Thy/Liv	NAPOLITANO et al. Effects of IL-7 on Early Human Thymocyte Progenitor Cells In Vitro and in SCID-hu Thy/Liv Mice. J. Immun. 2003, Vol. 171, pages 645-654.						
		·					
Further documents are listed in the	e continuation of Box C.		See patent family annex.				
Special categories of cited docume	nts:	*T"	later document published after the int	emational filing date or priority			
"A" document defining the general state of the of particular relevance			date and not in conflict with the appli the principle or theory underlying the	cation but cited to understand invention			
"E" earlier application or patent published on c date	earlier application or patent published on or after the international filing		X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
"L" document which may throw doubts on pricestablish the publication date of another cit specified)	blish the publication date of another citation or other special reason (as considered to involve an inve- cified) combined with one or more of		document of particular relevance; the considered to involve an inventive ste combined with one or more other suc being obvious to a person skilled in the	e step when the document is			
	ment referring to an oral disclosure, use, exhibition or other means		document member of the same patent				
"P" document published prior to the internation priority date claimed							
Date of the actual completion of the international search		Date of mailing of the international search report 2005					
16 May 2005 (16.05.2005) Name and mailing address of the ISA/US Authorized officer							
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Authorized officer Authorized officer			eta 1				
Commissioner of Patents		Authorized officer Timothy M. Brown 7. Roberts for					
P.O. Box 1450 Alexandria, Virginia 22313-1450			<u> </u>	· (' '			
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Form PCT/ISA/210 (second sheet) (July 1998)